

MOTION CUT WEEK 2

QUESTION :

1)Understanding Input Handling: Learn how to take user input in Python ?

PYTHON CODE:

```
# Prompt the user for input
text = input("Enter a text: ")

# Split the text into words based on whitespace
words = text.split()

# Count the number of words
word_count = len(words)

# Print the word count
print("Number of words:", word_count)
```

OUT PUT :

```
Enter a text: Hello world, this is a test.
Number of words: 6
```

2)String Manipulation: Explore string manipulation techniques for text processing?

PYTHON CODE:

```
def count_words(text):
    # Split the text into words based on whitespace
    words = text.split()
    # Return the number of words
    return len(words)

# Example usage
sample_text = "Explore string manipulation techniques for text processing."
word_count = count_words(sample_text)
print(f"Number of words: {word_count}")
```

OUT PUT:

```
text = "Explore string manipulation techniques for text processing."
```

```
number_of_words = count_words(text)
print("Number of words:", number_of_words)
```

Number of words in the text: 6

3)Function Creation: Practice creating functions in Python for modular code?

PYTHON CODE:

```
def count_words(text):
    """
    Function to count the number of words in the provided text.

    Parameters:
    text (str): The text string to count words in.

    Returns:
    int: The number of words in the text.
    """
    words = text.split()
    return len(words)

# Example usage
user_input = input("Enter the text: ")
word_count = count_words(user_input)
print(f"The number of words in the text is: {word_count}")
```

OUTPUT:

The number of words in the text is: 5

4)Basic Control Flow: Implement basic control flow structures to control the program's logic?

PYTHON CODE :

```
def count_words(text):
    # Check if the input text is empty
    if not text.strip():
        return 0
```

```

# Split the text into words based on whitespace
words = text.split()

# Count the number of words
num_words = len(words)

return num_words

# Example usage
input_text = input("Enter the text: ")
word_count = count_words(input_text)
print(f"Number of words: {word_count}")

```

OUTPUT:

```

Enter the text: Hello world!
Number of words: 2

```

```

Enter the text: Hello world!
Number of words: 2

```

```

Enter the text:
Number of words: 0

```

5)Output Display: Display the word count as the output of the program.run
python code number of words in a given text?

PYTHON CODE:

```

# Function to count the number of words in a text
def count_words(text):
    words = text.split() # Split the text into words
    return len(words) # Return the number of words

# Input text
input_text = input("Enter the text: ")

# Output the word count
print("Number of words:", count_words(input_text))

```

OUT PUT :

```

Enter the text: Hello world! This is a test.
Number of words: 6

```

